



ALAMEDA COUNTY CONGESTION MANAGEMENT AGENCY

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Memorandum

September 14, 2009
Agenda Item 4.1

Date: August 20, 2009

To: Plans and Programs Committee

From: Ray Akkawi, Manager of Project Delivery

Subject: I-680 Express Lane Project: Quarterly Construction Status Report

Attached for the Committee's review is the quarterly construction report for the I-680 Express Lane project. The CMA is the sponsor of the HOT element of the I-680 Express Lane. However, the construction phase of the civil elements of this project is administered by Caltrans. The construction status report covers all activities through July 31, 2009.

Background

The CMA's adopted Construction Administration Guide requires that a quarterly construction status report be provided to the Administration and Legislation Committee. While this project is not administered by CMA, the CMA is the sponsor and a funding partner of the project. Therefore, a quarterly construction status report is submitted to the Plans and Programs Committee as an informational item only.

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I-680 HOV/SMART LANE PROJECT
Quarterly Construction Status Report
For
May 1, 2009 through July 31, 2009

PROJECT DESCRIPTION

The existing southbound High Occupancy Vehicle (HOV) lane from Stoneridge Drive in Pleasanton to just south of Calaveras Boulevard (SR 237) in Milpitas will be improved, rehabilitated, and converted to a High Occupancy Toll (HOT) lane as part of the Southbound I-680 Smart Carpool Lane Project. The California Legislature under AB 2032 and the Federal Highway Administration (FHWA) authorized this conversion as a pilot project to improve travel efficiency in the corridor and provide more options to individual travelers.

Under the HOT lane concept, transit users, carpoolers, motorcycles and selected other eligible vehicles will continue to use the HOT Lane for free. Solo drivers who want a more convenient and reliable trip can choose to use the SMART Lane for a fee. The fee that is charged will vary depending upon the traffic conditions in both the SMART Lane and the mixed flow (MF) lanes. Based upon the state legislative authority and HOT lane concept, the conversion consists of two primary components Roadway Enhancements and Integration.

SUMMARY STATUS

The project is split into six (6) contracts:

CONTRACT #1 - HOV/HOT Lane & Rehabilitation, from Grimmer Boulevard to Route 238. This contract is under construction and is 60% completed.

CONTRACT 2 - HOV/HOT Lane & Rehabilitation, from Route 238 to Stoneridge Avenue. This contract is under construction and is 21% completed.

CONTRACT 3 - HOV/HOT Lane & Rehabilitation, from Route 237 to Grimmer Boulevard and Striping to Route 84. This contract is under construction and is 28% completed.

CONTRACT 4 - HOT Integration, INTEGRATION is being designed.

CONTRACT 5 – Landscaping and CONTRACT 6 – Mitigation are currently being designed.

Contract 1, 2, and 3 are administered by Caltrans. The work involves with these three contracts include freeway widening, structure widening, retaining walls, crack and seal and overlay of existing roadway, ramp metering. The planned HOT facility will consist of a standard HOV lane separated from the general purpose lanes by a striped buffer accompanied by appropriate signing. Contract No. 4, Integration, will be administered by ACCMA.

CONTRACT AND CONSTRUCTION STATUS

Contract Status:

Contract No. 1, 04-253794, was awarded to Bay Cities Paving and Grading Inc. by Caltrans on September 2, 2008 in the amount of \$38,830,000. The contract work started on October 6, 2008 and the estimated contractual completion date is August 14, 2009. However, due to change orders and adverse weather impact, the revised estimated completion date is December 22, 2009.

Contract No. 2, 04-4A5204, was awarded to Bay Cities Paving and Grading Inc. by Caltrans on April 17, 2009 in the amount of \$41,700,750. The contract work started on May 11, 2009 and the estimated contractual completion date is March 16, 2010. However, due to approved contract change orders, the revised estimated completion date is April 22, 2010. As of date, there has been no delay to the project due to adverse weather impact.

Contract No. 3, 04-253784, was awarded to Top Grade Construction Inc. by Caltrans on April 7, 2009 in the amount of \$32,860,000. The contract work started on June 2009 and the estimated contractual completion date is November 5, 2009. As of date, there has been no delay to the project due to contract change orders or adverse weather impact.

Construction Status for Contract 1:

The Contractor has completed four Retaining Walls (RW #5, RW #6, RW #7 and RW #8). Mission Bridge widening has been completed and the falsework have been removed. Furthermore, Contractor has completed the soil nail wall between Palm Avenue overcrossing and Washington Blvd overcrossing. The sign structures have been installed. Work on the electrical and the electronic toll system continues.

Listed below are some of the construction activities for Contract 1:

- ☐ Completed the slope paving between Retaining Wall #7 and the Mission on-ramp.
- ☐ Placed, underdrain, class 4 aggregate subbase and lean concrete base at Retaining Wall No. 4 area.
- ☐ Completed construction of face wall at Retaining Wall 8A.
- ☐ Installed Sign Structure F-1.
- ☐ Removed the falsework at the Mission Bridge widening.
- ☐ Continue working on approach slab at the Mission Bridge widening.
- ☐ Started the architectural treatment at the Retaining Wall #3.
- ☐ Complete construction of barrier wall in front of Retaining Wall #4
- ☐ Installed the column casing at the existing columns at Bent 2 and Bent 3 of Mission Bridge.
- ☐ Continue the construction of the footing at Retaining Wall No. 2.

Construction Status for Contract 2:

Listed below are some of the construction activities for Contract 2:

- ☐ Formed and poured Abutment 2 Vargas Road Bridge widening.
- ☐ Started construction of falsework at Vargas Road Bridge widening.

- ❑ Completed drilling and grouting the third lift of the Soil Nail, Retaining Wall #9.
- ❑ Placed structural backfill and reinforcement steel for the barrier at Retaining Wall #10.
- ❑ Completed placing shotcrete the Soil Nail, Retaining Wall #11.
- ❑ Continue to form and pour the stem wall of Retaining Wall #12.
- ❑ Started excavation of Retaining Wall #13 footing.
- ❑ Completed installing the soldier piles and started placing lagging at the Retaining Wall #14.
- ❑ Completed roadway excavation, placed aggregate subbase and started placing asphalt concrete at the Mission off ramp widening.
- ❑ Placed lean base concrete and asphalt concrete at the Paloma Road off ramp widening.
- ❑ Continue electrical work between Stoneridge Drive to Andrade Road.

Construction Status for Contract 3:

Listed below are some of the construction activities for Contract 3:

- ❑ Completed crack and seat the existing pavement from Grimmer to Mission.
- ❑ Started leveling and asphalt concrete paving, mainline from Grimmer to Scotts Creek.
- ❑ Constructed Sign Structures BB and AA foundations.
- ❑ Constructed the Gantry foundations.
- ❑ Form and pour the abutment footing at the North DWR widening.
- ❑ Form and pour the abutment walls at Calaveras Blvd Bridge widening.
- ❑ Started to form and pour Retaining Wall SB-1 stem wall.
- ❑ Drive concrete piles to bridge existing water line and form and pour the stem wall at Retaining Wall SB-3A.
- ❑ Continue to excavate, form and pour the catcher bents footing at the South DWR widening.
- ❑ Excavate, form and pour the catcher bents footing at the East Warren Bridge widening.
- ❑ Started roadway excavation, part of widening from Warren to Scotts Creek.
- ❑ Continue electrical work at various locations.

Financial Status for the Three Contracts under Construction

This section of the report includes a review of the project construction budget.

Budget and Expenditure Summary

The table below is the breakdown of the funding allocation and total expenditures to date for contract 1, contract 2 and contract 3.

ALLOCATION:

	Contract 1	Contract 2	Contract 3
HOV	\$19,890,000.00	\$16,023,107.00	\$17,900,000.00
HOT	\$6,470,000.00	\$4,918,243.00	\$2,700,000.00
SHOPP	\$12,470,000.00	\$20,759,400.00	\$12,260,000.00
Total Allotment	\$38,830,000.00	\$41,700,750.00	\$32,860,000.00

EXPENDITURES TO DATE (including Change Orders)

HOV	\$12,889,186.00	\$3,800,765.00	\$4,748,927.00
HOT	\$4,354,885.00	\$1,231,182.00	\$700,027.00
SHOPP	\$4,691,647.00	\$3,370,898.00	\$2,405,175.00
Total Expenditure	\$21,935,718.00	\$8,402,845.00	\$7,854,129.00
Estimated Fund Balance (Allocation – Expenditures)	\$16,894,282.00	\$33,297,905.00	\$25,005,8710.00

Schedule Status

	Contract 1	Contract 2	Contract 3
Bid Opening:	August 19, 2008	December 10, 2008	December 16, 2008
Contract Award:	September 02, 2008	April 07, 2009	April 17, 2009
Total Working Days per Bid	188 Working Days	177 Working Days	92 Working Days
Time Extension due to Weather Days:	66 Working Days	0 Working Days	0 Working Days
Time Extension due to Change orders:	20 Working Days	25 Working Days	0 Working Days
Estimated Completion Date	December 22, 2009	April 22, 2010	November 5, 2009
%e Completion (Work):	60%	21%	28%

Due to approved contract change orders and adverse weather impact to contract #1, the completion date has been extended by four months from the original completion date.

Furthermore, the completion date for contract #2 has been extended due to change orders.

Outstanding Issues/Disputes/Claims

Contract #1 and Contract #2, the work is progressing well and no notice of potential claim has been filed by the Contractor.

Subsequently for contract #3, Contractor has filed two notices of potential claims related to the disposal of contaminated material and structural backfill. However, the claims are being resolved by the construction staff and the contractor.